

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-55 (Canceled).

Claim 56 (New): A terminal for a short range wireless mobile communication system, comprising

a directional signal wave converter; and

a controller configured to determine an optimum beam and to adjust said directional signal-wave converter to transmit/receive an information-carrying signal wave by said optimum beam;

the controller further configured to detect whether a distance between the terminal and a further terminal falls short of a predefined distance value;

the controller further configured to, when said distance falls short of said predefined distance value, determine a beamwidth so that the beamwidth is increased to a fixed beamwidth value, determine a set of allowed beam directions to comprise a unique beam direction, and determine the optimum beam as a beam having said fixed beamwidth value and said unique beam direction value; and

the controller configured to, when said distance does not fall short of said predefined distance value, determine a beamwidth according to a function which increases when the distance decreases, determine a set of allowed beam directions based on said beamwidth to comprise a plural number of allowed beam directions, said number decreasing when the beamwidth increases, and determine the optimum beam as a beam for which a reported quality is the highest according to a beam-tracking algorithm wherein, sequentially for each particular beam direction among said set of allowed beam directions, a burst is transmitted by a beam having said particular beam direction and said determined beamwidth and in response

thereof a report including an indication of the quality of the beam is received from the further terminal.

Claim 57 (New): The terminal of Claim 56, wherein the beamwidth is a Half Power Beam Width.

Claim 58 (New): The terminal of Claim 57, wherein the fixed beamwidth value corresponds to an omnidirectional characteristic.

Claim 59 (New): The terminal of Claim 56, further comprising:  
a distance determination means for determining the distance between the terminal and the further terminal.

Claim 60 (New): The terminal of Claim 59, wherein the distance determination means comprises an ultrasonic distance measurement system.

Claim 61 (New): The terminal of Claim 59, wherein the distance determination means comprises an optical distance measurement system.

Claim 62 (New): The terminal of Claim 59, wherein the distance determination means determines the distance between the terminal and the further terminal based on a Received Signal Strength Indicator value.

Claim 63 (New): The terminal of Claim 56, further comprising:

a mechanical steering for steering the radiation angle of the directional signal wave converter.

Claim 64 (New): The terminal of Claim 56, wherein the directional signal wave converter comprises an adaptive signal wave converter array.

Claim 65 (New): The terminal of Claim 56, wherein the signal wave converter on the terminal is configured to transmit and receiving information in form of a radio wave and/or light wave.

Claim 66 (New): A short range wireless mobile communications system including a first terminal and a second terminal each adapted for transmitting and receiving an information carrying signal wave, the first terminal being the terminal according to Claim 56, and the second terminal being the terminal according to Claim 56.

Claim 67 (New): The system of Claim 66, wherein the first terminal comprises a distance determination means.

Claim 68 (New): The system of Claim 66, wherein the first terminal is a stationary terminal.